

IN THE CLAIMS:

Please amend the claims as follows:

1. – (Canceled)

2. – (Canceled)

3. – (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that server module (9) of the SMSC (5) comprises a composition block of SMS messages proper (33) which composes said SMS message from the SMS-http message.

4. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that client modules (2, 8) comprise means (35) of calculating HASH security functions (63); and in that the server modules (3, 9) comprise means of confirming the HASH security functions (35); in order to generate a return code (27) which enables or denies a connection as a function of the HASH sent and obtained.

5. – (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that client modules (2, 8) have encoding means (62) and server modules (3, 9) have decoding means (34), to allow more characters and symbols to be sent/received.

6. - (Original) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 5, characterised in that the encoding (63) and decoding (35) means, perform base64 encoding/decoding.

7. - (Original) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 4, characterised in that SMS composition block (33) of the server module of the SMSC (5) has means of translating from the SMS-http message to GSM characters, prior to composing the SMS message, to allow this to be sent via the GSM network.

8. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that client modules (2, 8) have means of segmentation of the information in order to send longer messages.

9. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 8, characterised in that the means of segmentation of client module (2, 8) are foreseen in message composition block (59).

10. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that server modules (3, 9) have means of segmentation of the information in order to send longer messages.

11. - (Original) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 10, characterised in that the means of segmentation of server module (3, 9) are foreseen in message composition block SMS (33).

12. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that mandatory and optional parameters of the short messages are sent.

13. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 12, characterised in that short message composition block (33) of server module (3, 9) is provided with means for recovery of the mandatory and optional parameters, and in the event that the optional parameters are omitted it is provided with means for inserting default values.

14. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that client modules (2, 8) have means of generating acknowledgement of receipt, which are sent through message transmission block (64) to the corresponding server module (3, 9) and in that client modules (2, 8) also have means of transmitting the result of the acknowledgement of receipt to server module (3, 9) of client module (2, 8) that generated the acknowledgement of receipt in the first instance.

15. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claims 3, 4 or 14, characterised in that server modules (3, 9) are provided with a return code transmission block (37) provided with means for indicating that the transmission has been correct or has been errored; and in this last case also provided with means for identifying the type of error produced; the client modules (2, 8) being also provided with a return code reception block (58).

16. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that means of reattempting transmission of failed messages a certain number of times have been foreseen and of reattempting transmission of acknowledgement of receipt messages a certain number of times.

17. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMEC) THROUGH INTERNET, according to claim 19, characterised in that the SMS is sent from remote server (1) to the mobile telephone user (7) and/or from the mobile telephone user (7) to remote server (1).

18. - (Previously Presented) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 19, characterised in that client module (8) and server module (9) of the operator of the mobile telephony network (6) have means of simultaneous communication with a plurality of remote servers (1), to furnish simultaneous connection to a mobile telephone user (7) with a plurality of remote servers (1).

19. - (Currently Amended) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, which is provided with means for sending and receiving short messages (SMS) between a remote server (1) and a mobile telephone user (7), which is in bi-directional communication with a short message service centre (5) (SMSC) on a GSM network (10), existing bi-directional transmission/reception of messages between the remote server (1) and the mobile telephone user (7), the communication being originated in either the mobile telephone user (7) or the remote server (1) in an independent way, said remote server (1) being provided with means for communicating with the SMSC (5) via an Internet hypertext transfer protocol (http), for which both the SMSC (5) and remote server (1) are provided with means of bi-directional transmission/reception (2,3,8,9) of short messages via the protocol (http); characterised in that the means of transmission/reception (2,3,8,9) of the SMSC (5) and the remote server (1) comprises a client module (2,8) for the composition and transmission of messages, and a server module (3,9) for the reception of messages, client modules (2,8) comprising an SMS-http message composition block (59) which is provided with means for composing short messages adapted for their transmission via the Internet http protocol, in which SMS messages convert into http messages directly, also being provided with a block for transmission of SMS-http messages (64) to server module (3,9) to which is intended to send them; and server modules (3,9) comprising an SMS-http message reception block (29) and a data analysis block (30) which is provided with access to a database (32) provided with means for verifying the data of originator, addressee of the message and access code, and as a function of this verification is also provided with means for generating a return code (23) signaling data correct or data errored.

20. - (New) SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 14, characterised in that means of reattempting transmission of failed messages a certain number of times have been foreseen and of reattempting transmission of acknowledgement of receipt messages a certain number of times.